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II Semester B.C.A. Degree Examination, September - 2023

COMPUTER SCIENCE

Object Oriented Programming Using Java

(NEP Scheme)

Time : 2½ Hours

Maximum Marks :60

Instructions to Candidates:

Answer all the sections.

SECTION - A

Answer any **Four** questions. Each question carries 2 marks.

(4×2=8)

1. What is bytecode?
2. What are the different access modifiers in Java?
3. Differentiate between 'String' Class and 'String buffer' class.
4. Expand
 - a) JDK
 - b) JRE
5. Define Package. Mention its use.
6. What is Exception in Java?



SECTION - B

Answer any **Four** questions. Each question carries 5 marks.

(4×5=20)

7. Explain the features of Java.
8. Explain conditional operator and logical operators in Java.
9. Define Inheritance. Explain the types of Inheritance supported by Java.
10. Write a program to demonstrate a division by zero Exception.

[P.T.O.]



11. Explain the life cycle of an Applet with a neat diagram.
12. Write a program that demonstrate any two keyboard events.

SECTION - C

Answer any Four questions. Each question carries Eight marks. (4×8=32)

13. a) What is an interface? Explain with an example how a class implements an interface. (6)
b) What is constructor? Explain. (2)
 14. a) Write a short note on JVM. (4)
b) Explain different data types of a Java Programming. (4)
 15. a) Explain life cycle of a Thread. (4)
b) Write a program to create an Applet and draw grid lines. (4)
 16. a) Write a short note on Java Packages. (5)
b) Explain Wrapper classes. (3)
 17. a) Explain abstract class in Java. (6)
b) What are the different ways of creating files. (2)
 18. a) Write any four methods of Socket class. (4)
b) Mention the uses of Java Beans. (4)
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